



Journal of Sensors

Special Issue on
Integration of Sensors in Control and Automation Systems

CALL FOR PAPERS

The integration of sensors in control and automation systems has received a great deal of attention from a considerable number of researchers and from the industrial community in the last years. Emphasis is placed on the importance of creating improvements in control and automation systems in order to meet the challenges of developing and refining new applications. These systems have to integrate a variety of sensory information and human knowledge for the sake of efficiently carrying out task with or without human intervention. This special issue aims at exhibiting the latest research achievements, findings, and ideas in the integration of sensors in control and automation systems.

Researchers are invited to contribute with their original research articles as well as review articles that summarize the most recent developments and ideas in the field of integration of sensors in control and automation systems.

Potential topics include, but are not limited to:

- ▶ Sensor systems for control and automation: sensors and sensor networks, intelligent sensors, sensor uncertainty for fault tolerant control, distributed and multimodality sensor network for control and automation, and so on
- ▶ Control: adaptive control, robust control, active disturbance rejection control, complex systems, identification and estimation, nonlinear systems, intelligent systems, sensor networks, delay systems, precision motion control, control applications, and so on
- ▶ Automation: man-machine interactions, process automation, network-based systems, intelligent automation, planning, scheduling and coordination, and so on
- ▶ Robotics: modelling and identification, mobile robotics, mobile sensor networks, perception systems, visual servoing, robot sensing and data fusion, and so on
- ▶ Process based control: sensor development, system design, and control development
- ▶ Control and automation systems: fault detection and isolation, sensing and data fusion, flight control and surveillance systems, rescue and field robotics, guidance control systems, industry, military, space and underwater applications, linear and nonlinear control systems, signal and image processing, and so on
- ▶ Industrial informatics: embedded systems for monitoring and controlling

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